PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PCT-A0514-00	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/JP2005/004825	International filing date (day/month/year) 17 March 2005 (17.03.2005)	Priority date (day/month/year) 24 March 2004 (24.03.2004)	
International Patent Classification (8t See relevant information in Form	h edition unless older edition indicated) PCT/ISA/237		
Applicant KISSEI PHARMACEUTICAL CO.,	, LTD.	·	

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	This report contains indications	s relating to the following items:			
	Box No. I	Basis of the report			
•	Box No. II	Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
·	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the international application			
4.	The International Bureau will on not, except where the applicant date (Rule 44bis .2).	communicate this report to designated Offices in accordance with Rules 44his.3(c) and 93his.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority			
		*			
	·	Date of issuance of this report			

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Date of issuance of this report
26 September 2006 (26.09.2006)

Authorized officer

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Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

from the NTERNATIONAL SEARCHING AUTHOR	ITY	W/S/	
Τυ:			PCT PTON
			VRITTEN OPINION OF THE TIONAL SEARCHING AUTHORITY
		(PCT Rule 43bis.1)	
<u></u>		Date of mailing (day/month/year)	
Applicant's or agent's file reference PCT-A0514-00		FOR FURTHER ACTION See paragraph 2 below	
International application No. PCT/JP2005/004825	17.03.2005	(day/month/year)	Priority date (day/month/year) 24.03.2004
International Patent Classification (IPC) or both	national classification an	d IPC	
Applicant KISSEI PHARMACEUTICAI	L CO., LTD.		
1. This opinion contains indications rela		s:	
Box No. I Basis of the	opinion		
Box No. II Priority Box No. III Non-establi			
<u></u>	•	th regard to novelty, inventive step and industrial applicability	
Box No V Reasoned st	ty of invention atement under Rule 43 <i>bis</i> y; citations and explanatio		o novelty, inventive step or industrial tatement
Box No. VI Certain doc	uments cited		
Box No. VII Certain defe	ects in the international ap	plication	
Box No. VIII Certain obse	ervations on the internatio	nal application	
2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinion this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the II written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of PCI/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.			
3. For further details, see notes to Form	PCT/ISA/220.		
Name and mailing address of the ISA/JP		Authorized office	
Facsimile No.		Telephone No.	

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Box	x No. I Basis of this opinion .	
1.	With regard to the language, this opinion has been established on the basis of the international application in the la filed, unless otherwise indicated under this item.	nguage in which it was
	This opinion has been established on the basis of a translation from the original language into the following lar	nguagc
	, which is the language of a translation furnished for the purposes of inter	national scarch (under
	Rule 12.3 and 23.1(b)).	
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessition, this opinion has been established on the basis of:	cessary to the claimed
	a. type of material	
	a sequence listing	
•	table(s) related to the sequence listing	
	b. format of material	
	in written format	
	in computer readable form	
	c. time of filing/furnishing	•
	contained in the international application as filed.	
	filed together with the international application in computer readable form.	
	furnished subsequently to this Authority for the purposes of search.	•
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating the furnished, the required statements that the information in the subsequent or additional copies is identical to the filed or does not go beyond the application as filed, as appropriate, were furnished.	ereto has been filed or at in the application as
4.	Additional comments:	
		•
		}

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Box No. 1	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	tions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially have not been examined in respect of:
	the entire international application
\boxtimes	claims Nos. 11
becau	se:
	the said international application, or the said claims Nos. 11 relate to the following subject matter which does not require an international preliminary examination (specify):
	The subject matter of claim 11 relates to a method for treatment of the human body by therapy, which does not require an international preliminary examination by the International Preliminary Examining Authority in accordance with PCT Article 34(4)(a)(i) and Rule 67.1(iv).
. 🗖	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):
	ullet .
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.
\boxtimes	no international search report has been established for said claims Nos. 11
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
	the written form has not been furnished
	does not comply with the standard
	the computer readable form has not been furnished
	does not comply with the standard
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
	See Supplemental Box for further details.

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Statement -		•	
Novelty (N)	Claims	1-10	YE
	Claims		NC
Inventive step (IS)	Claims		YE
	Claims	1-10	NC
Industrial applicability	(IA) Claims	1-10	YE
	Claims		NO
(27.03.03) Document 2: WO, (12.09.02) Document 3: WO, Document 4: JP, 20 (16.10.01) Document 5: JP, 20	02-069906, A2 00-02846. A1 001-288115, A	216, A1 (Kissei Pharmaceutical Co., Ltd.), 27 March, 2003 2 (CELL-EGY Pharmaceuticals, Inc.), 12 September, 2002 (Kissei Pharmaceutical Co., Ltd.), 20 January, 2000 (20.01.00) (Yamanouchi Pharmaceutical, Co., Ltd.), 16 October, 2001 (Plizer Products Inc.), 26 February, 2003 (26.02.03) (Yamanouchi Pharmaceutical, Co., Ltd.), 24 April, 2001	

Claims 1-10

The subject matters of claims 1-10 do not appear to involve an inventive step in view of documents 1-6 cited in the ISR.

Document 1 describes an anti-(interstitial) cystitis drug in combination of an α -adrenoreceptor antagonist (prazosin, terazosin etc.) with a β -adrenoreceptor agonist (especially see paragraphs [0006], [0031], [0032], [0045] and [0046]). There is found no difference between the inventions described in document 1 and the subject matters of claims 1-10 in the diseases to be cured, taking the followings into consideration;

- (1) Paragraph [0006] in document 1 describes concretely frequent urination as the cystitis symptoms to be cured,
- (2) Paragraph [0023] in the specification of the application concerned also describes "for prevention or therapy of frequent urination or urinary incontinence accompanied by acute or chronic cystitis, chronic or acute prostatitis etc.," and
- (3) It is a common general technical knowledge that relationship between cystitis and frequent urination or urinary incontinence is widely recognized.

On the other hand, documents 2 and 3 describe that a phenoxyacetic acid derivative represented by the formula (I) is effective in stimulating a $\beta3$ -adrenoreceptor and is useful as a preventive or therapeutic agent for diseases such as frequent urination, urinary incontinence etc. Moreover document 2 (page 4, line 33 to page 5, line 9) suggests that the phenoxyacetic acid derivative is utilized together with an $\alpha1$ -adrenoreceptor angtagonist. Therefore, a person skilled in the art could have easily employed the phenoxyacetic acid derivative described in documents 2 and 3 as a β -adrenoreceptor antagonist in the invention described in document 1. The β -adrenoreceptor antagonist is an ingredient of a drug for urinary and reproductive organ diseases, e. g. cystitis etc., including frequent urination and urinary incontinence. Furthermore, documents 4-6 describe tamusulosin, naphthopidil etc. as an α -adrenoreceptor antagonist that is useful as a therapeutic agent

unpredictable and particularly remarkable for a person skilled in the art.

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement for diseases in the urinary and reproductive organs. So, in the invention described in document 1, a person skilled in the art could have adequately conceived of employing tamsulosin, naphthopidil etc. described in documents 4-6 as an α-adrenoreceptor antagonist. The α-adrenoreceptor antagonist is an ingredient of a drug for diseases in such urinary and reproductive organs such as cystitis etc. In addition, the specification of the application concerned only discloses that tamsulosin chlorate or sirodosin has the effect of lowering the bladder internal pressure and of extending the interval between urinations when it is selected as an $\alpha 1$ -adrenoreceptor blocking agent and is combined with a phenoxyacetic acid derivative represented by the formula (I). It cannot be ascertained whether another typical $\alpha 1$ -adrenoreceptor blocking agent has effects equal to the above or not when being selected. Moreover, given the descriptions in the specification of the application concerned, it cannot be also ascertained whether the effects of lowering the bladder internal pressure and of extending intervals between urinations attribute to a mere additive effect or a synergistic effect in combination of two ingredients. Accordingly, considering the inventions described in documents 1-6, the effects presented by the subject matters of claims 1-10 are not recognized to be